Multiplicities

relationships between tables

* There are 3 types of Multiplicities

1. 1-to-1
   * each piece of data in either table corresponds with exactly one piece of data in the other table
   * this relationship never has to exist, but may be desired
2. 1-to-Many
   * each piece of data in one of the tables corresponds to many pieces of data in the other table.
     + This relationship is NOT symmetrical
     + In the other direction => Many-to-1
3. Many-to-Many
   * each piece of data in either table can correspond to many pieces of data in the other table
     + this relationship IS symmetrical
   * Junction Table
     + an intermediary table to break up the relationships into 2 sets of 1-to-Many